



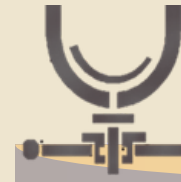
AN ISO 9001-2015 CERTIFIED COMPANY



UNITEK VALVES PVT LTD CATALOGUE

LUBRICATED PLUG VALVE





LUBRICATED PLUG VALVE

STANDARDS

- DESIGN STD: BS 5159 / BS 5351 / ANSI B 16.34
- TESTING STANDARD: BS 5146 / BS 6755 Pt 1 / API 598

Plug Valve Self Lubricated design with Regular Pattern two way, Regular Pattern 3 Way, Regular Pattern 4 Way, Screwed & Flanged Ends and Higher Class in Forged body plug valve. Plug valves are designed and manufacturers as per standard norms and variety of materials. CS body, CI body, SS 304, SS 316 Plug valves have end connections as per customer requirements.

SELF LUBRICATED TAPER PLUG VALVE SCREWED

LUBRICATED TAPER PLUG VALVE, STRAIGHT WAY (2-WAY)

LUBRICATED TAPER PLUG VALVE, MULTIPORTED (3-WAY & 4-WAY)



- Inverted Type
- Wrench / Lever operated
- Size Range: DN 10 – DN 32
- Pressure Range: PN8, Class 125



- Standard Type
- Straight Way (2-Way)
- Wrench operated
- Size Range: DN 15 – DN 250
- Pressure Range: Regular Pattern - Class 125, Class 150, Class 300
- Short Pattern - Class 125, Class 150



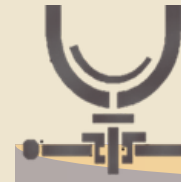
- Standard Type
- Multi-ported (3-Way & 4-Way)
- Wrench operated
- Size Range: DN 15 – DN 150
- Pressure Range: PN10 / Class 125, PN16 / Class 150, PN25 / Class 300

Testing:	CLASS	Hydrostatic		Pneumatic
Shell		Seat	Seat	Seat
Kg/Cm2		Kg/Cm2	Kg/Cm2	Kg/Cm2
8	125	18	10	6.5

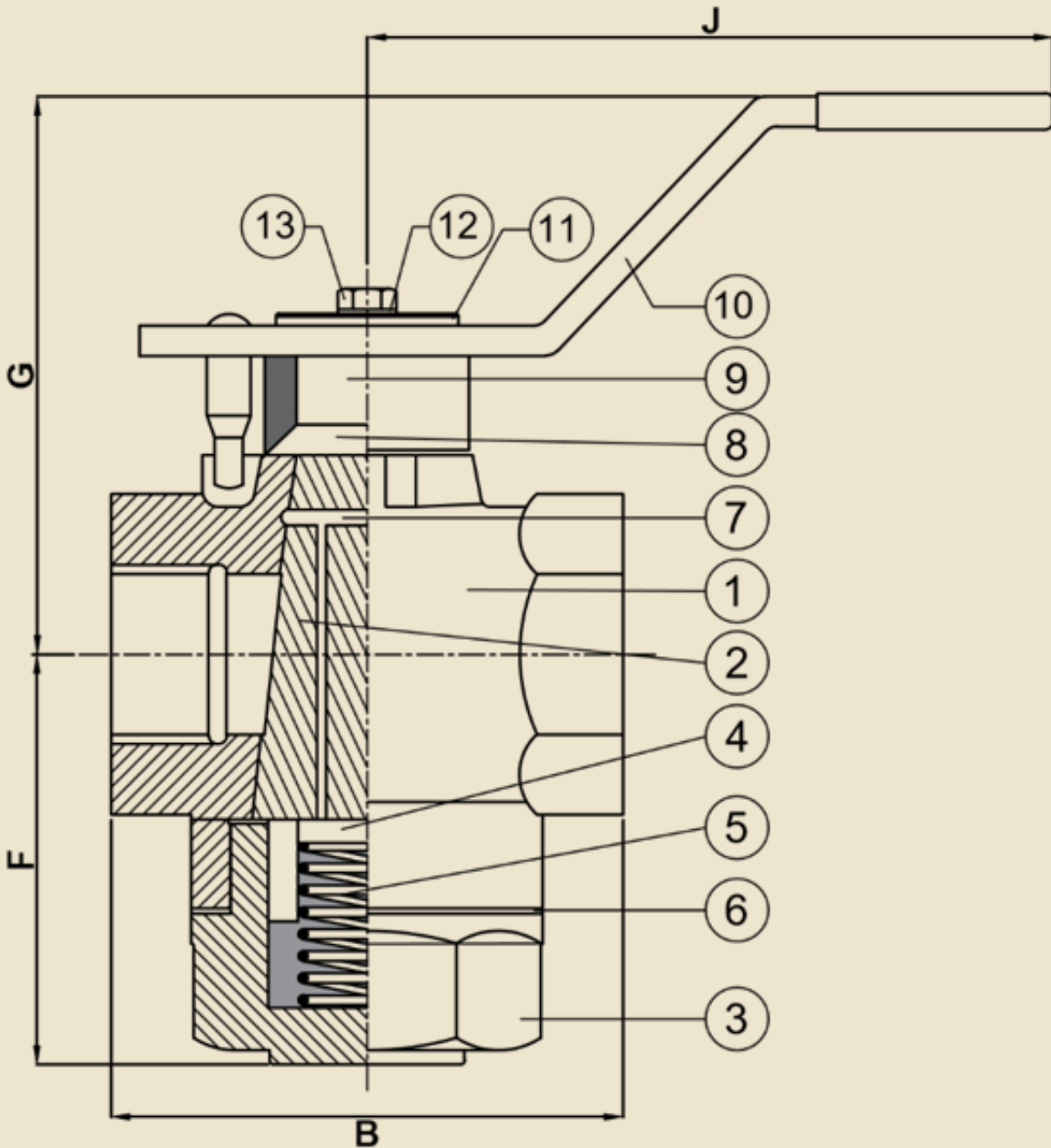
Testing:	Hydrostatic		Pneumatic
Shell	Seat	Seat	Seat
Kg/Cm2	Kg/Cm2	Kg/Cm2	Kg/Cm2
125	18	12	6.5
150	30	24	6.5
300	76	55	6.5

Testing:	CLASS	Hydrostatic		Pneumatic
Shell		Seat	Seat	Seat
Kg/Cm2		Kg/Cm2	Kg/Cm2	Kg/Cm2
10	125	18	12	6.5
16	150	30	24	6.5
25	300	76	55	6.5

COLD & NON SHOCK PRESSURE APPLIED INSIDE THE PORT



SELF LUBRICATED TAPER PLUG VALVE SCREWED



- Inverted Type
- Wrench / Lever operated
- Size Range: DN 10 – DN 32
- Pressure Range: PN8, Class 125

MATERIAL SPECIFICATION		
P. No.	PART DESCRIPTION	MATERIALS
1	BODY	C.I. (IS 210 Gr. FG 220) / CS ASTM A 216 Gr. WCB / SS 304 /SS 316 / ASTM A 351 Gr. CF8 / CF8M
2	PLUG	C.I. (IS 210 Gr. FG 220) / CS ASTM A 216 Gr. WCB / SS 304 /SS 316 / ASTM A 351 Gr. CF8 / CF8M
3	CAP NUT	C.I. (IS 210 Gr. FG 220) / CS ASTM A 216 Gr. WCB / SS 304 /SS 316 / ASTM A 351 Gr. CF8 / CF8M
4	PISTON	C.I. (IS 210 Gr. FG 220) / CS ASTM A 216 Gr. WCB / SS 304 /SS 316 / ASTM A 351 Gr. CF8 / CF8M
5	SPRING	SPRING STEEL
6	GASKET	C.A.F. IS 2712 Gr. O/2 / COMPRESSED ASBESTOS
7	'O' RING	SILICON RUBBER
8	DELTA RING	PTFE
9	GLAND	SS 410
10	WRENCH	M.S
11	WASHER	M.S
12	SP. WASHER	Sp. STEEL
13	BOLT	CARBON STEEL STAINLESS STEEL
Other materials can be provided on request.		

All dimensions in mm (unless specified) & Weight given in kg.

Valves can be supplied in other MOC's on request :-SS (ASTM A 351 Gr.CF3MN / CF8C / CN7M), DSS (ASTM A 995 Gr. 4A / 5A / 3A / 6A)

DIMENSIONAL DATA OF INVERTED TYPE PLUG VALVE					
VALVE SIZE (DN)	10	15	20	25	32
VALVE SIZE (NPS)	"	"	"	1"	1"
B	70	70	89	98	115
F	55	55	66	80	92
G	50	50	75	93	113
H	44	44	57	67	75
J	107	107	119	140	200
Wt. kg. Approx.	0.9	0.9	1.9	2.9	5
Note: The above data is subject to change without any notice due to our continuing product improvement program.					

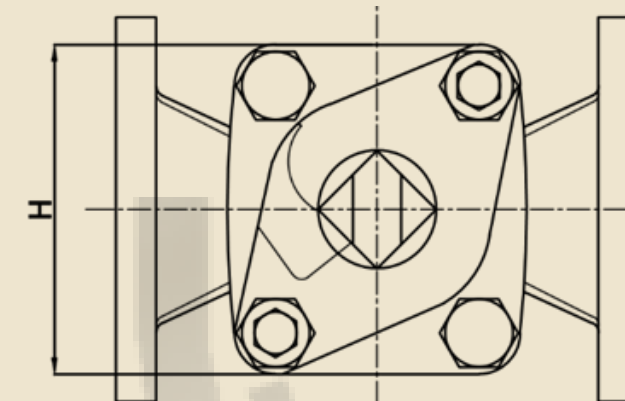


BRICATED TAPER PLUG VALVE, STRAIGHT WAY (2-WAY)

MATERIAL SPECIFICATION

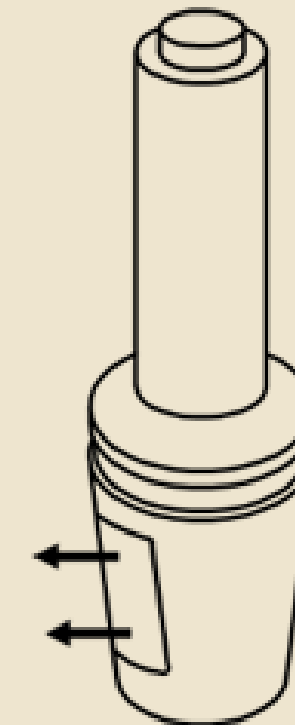
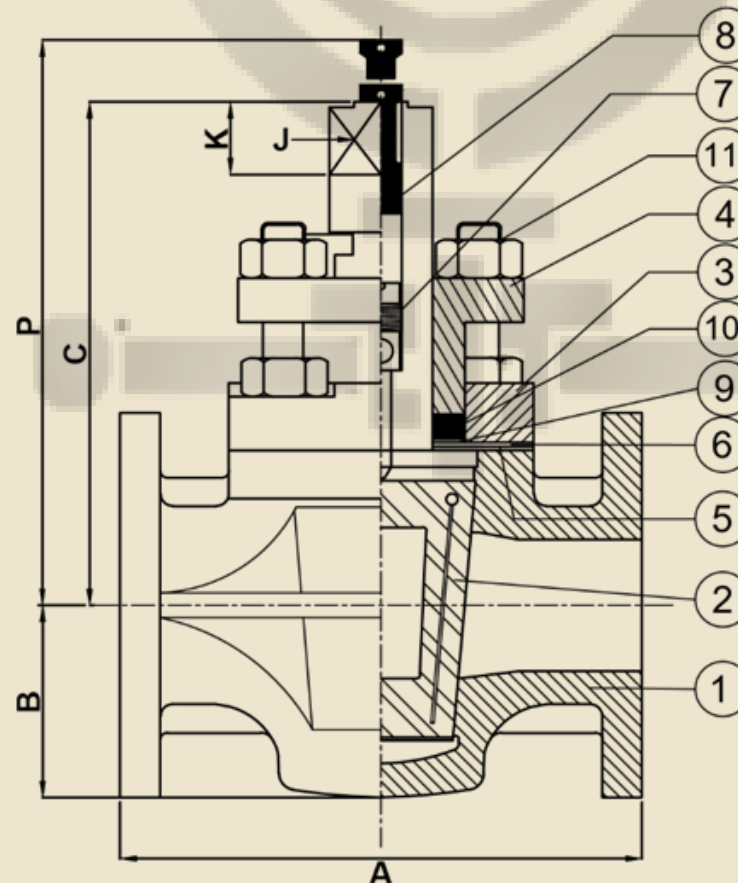
P. No.	PART DESCRIPTION	MATERIALS
1	BODY	C.I. (IS 210 Gr. FG 220) / CS ASTM A 216 Gr. WCB / SS 304 / SS 316 / ASTM A 351 Gr. CF8 / CF8M
2	PLUG	C.I. (IS 210 Gr. FG 220) / CS ASTM A 216 Gr. WCB / SS 304 / SS 316 / ASTM A 351 Gr. CF8 / CF8M
3	COVER PLATE	C.I. (IS 210 Gr. FG 220) / CS ASTM A 216 Gr. WCB / SS 304 / SS 316 / ASTM A 351 Gr. CF8 / CF8M
4	GLAND	C.I. (IS 210 Gr. FG 220) / CS ASTM A 216 Gr. WCB / SS 304 / SS 316 / ASTM A 351 Gr. CF8 / CF8M
5	GASKET	C.A.F. IS 2712 Gr. O/2 / COMPRESSED ASBESTOS
6	SHIM	STAINLESS STEEL
7	CHECK VLAVE	M.S. BRIGHT
8	LUB. FEED BOLT	M.S. BRIGHT
9	GLAND RING	C.A.F. IS 2712 Gr. O/2
10	GLAND PACKING	RUBBERISED ASBESTOS
11	FASTENERS	MS / HIGH TENSILE

Other materials can be provided on request.

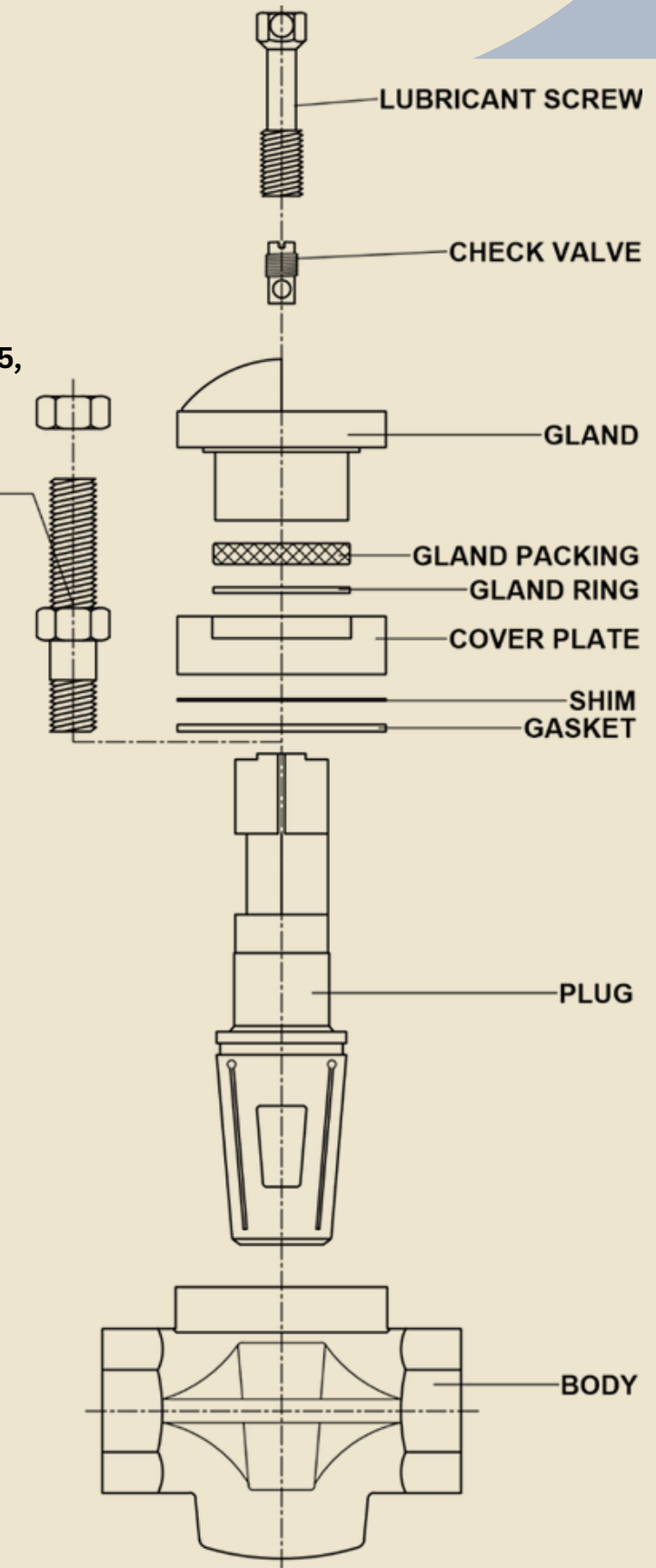


- Standard Type
- Straight Way (2-Way)
- Wrench operated
- Size Range: DN 15 – DN 250
- Pressure Range: Regular Pattern - Class 125, Class 150, Class 300

Short Pattern - Class 125, Class 150



PLUG



BODY

PLUG

SHIM GASKET

COVER PLATE

GLAND RING

GLAND PACKING

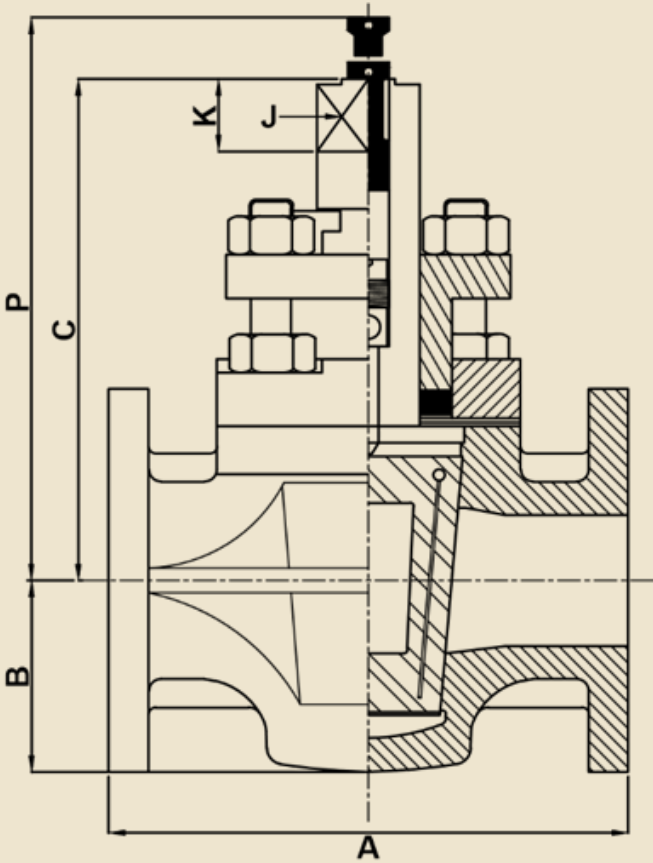
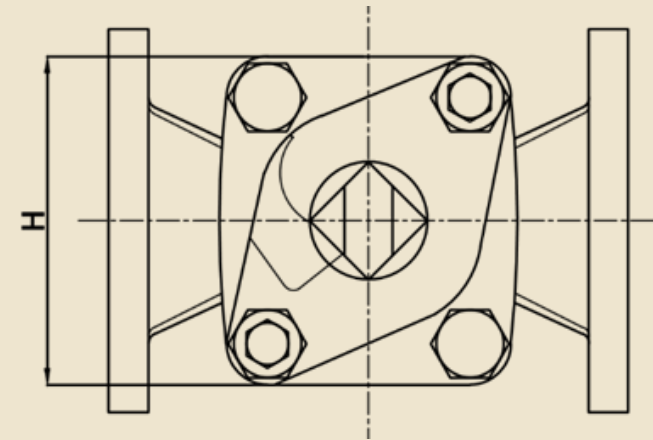
GLAND

CHECK VALVE

LUBRICANT SCREW



LUBRICATED TAPER PLUG VALVE, STRAIGHT WAY (2-WAY)



SHORT PATTERN CLASS 125 / 150 #											REGULAR PATTERN CLASS 125 / 150 #																	REGULAR PATTERN CLASS 300 #													
VALVE SIZE (DN)	25	40	50	65	80	100	125	150	200	250	VALVE SIZE (DN)	10	15	20	25	32	40	50	65	80	100	125	150	200	VALVE SIZE (DN)	15	20	25	32	40	50	65	80	100	125	150					
VALVE SIZE (NPS)	1”	1”	2”	2”	3”	4”	5”	6”	8”	10”	VALVE SIZE (NPS)	”	”	”	1”	1”	1”	2”	2”	3”	4”	5”	6”	8”	VALVE SIZE (NPS)	”	”	1”	1”	1”	2”	2”	3”	4”	5”	6”					
A	127	165	178	191	203	229	254	267	292	-	A (FLANGED ENDS)	-	121	121	140	152	165	203	222	241	305	358	394	-	A (FLANGED ENDS)	140	152	159	-	191	216	241	283	305	-	-					
C	121	157	156	173	202	227	267	294	327	-	A (SCREWED ENDS)	89	-	95	111	127	133	152	-	203	-	-	-	-	A (SCREWED ENDS)	95	95	111	-	133	165	-	-	-	-	-					
B	50	65	71	87	102	114	137	175	180	-	C	100	114	114	121	137	157	173	197	227	248	294	327	-	C	100	100	117	-	152	176	200	230	248	-	-					
H	91	105	105	125	144	152	261	275	346	-	B	30	46	46	50	59	65	76	82	108	137	164	180	-	B	36	46	51	-	65	81	87	114	140	-	-					
J	22	27	27	32	38	41	48	51	51	-	H	86	101	101	91	98	105	127	145	152	220	260	290	-	H	78	78	78	-	105	125	145	158	219	-	-					
K	21	25	25	29	30	49	51	54	54	-	J	19	22	22	22	22	27	32	38	41	48	51	51	-	J	19	19	22	-	27	32	38	41	48	-	-					
P	175	213	213	252	278	318	338	416	450	-	K	21	21	21	21	21	25	29	30	50	51	54	54	-	K	21	21	22	-	29	27	32	44	46	-	-					
LUB. STICK	1A	2A	2A	3A	3A	4A	4A	4A	5A	5A	P	154	162	162	175	175	213	226	272	318	398	416	450	-	P	152	152	170	-	210	265	275	325	343	-	-					
WRENCH TYPE	3W	4W	4W	5W	6W	7W	8W	9W	9W	-	LUB. STICK	1A	1A	1A	1A	1A	2A	3A	3A	4A	4A	4A	5A	-	LUB. STICK	1A	1A	1A	-	2A	3A	3A	4A	4A	-	-					
											WRENCH TYPE	2W	3W	3W	3W	3W	4W	5W	6W	7W	8W	9W	9W	-	WRENCH TYPE	2W	2W	1A	-	4W	5W	6W	7W	8W	-	-					
											App. Wt. kg. (FLANGED ENDS)	-	4.1	4.3	5.7	7.8	10	15.9	21	27	50	82	101	-	App. Wt. kg. (FLANGED ENDS)	-	-	1A	-	-	-	-	-	-	-	-					
											App. Wt. kg. (FLANGED ENDS)	1.8	-	2.7	3.5	5.6	7.3	11.4	-	-	-	-	-	-	App. Wt. kg. (FLANGED ENDS)	-	-	1A	-	-	-	-	-	-	-	-					

All dimensions in mm (unless specified) & Weight given in kg.



LUBRICATED TAPER PLUG VALVE, MULTIPORTED (3-WAY & 4-WAY)

DIMENSIONAL DATA

VALVE SIZE (DN)	15	25	32	40	50	65	80	100	150
VALVE SIZE (NPS)	"	1"	1"	1"	2"	2"	3"	4"	6"
A (FLANGED ENDS)	152	165	203	222	241	267	305	356	-
A (SCREWED ENDS)	127	133	154	175	197	-	250	-	-
C	139	155	176	190	215	250	258	289	-
B	49	59	65	76	92	108	137	148	-
H	110	114	132	152	168	178	248	-	-
I	119	130	150	176	191	208	262	308	-
J	22	27	27	32	38	41	47	51	-
K	22	25	25	29	30	49	49	49	-
P	192	211	245	265	290	340	348	405	-
LUB. STICK	1A	2A	2A	3A	3A	4A	4A	5A	-

MATERIAL SPECIFICATION

P. No.	PART DESCRIPTION	MATERIALS
1	BODY	C.I. (IS 210 Gr. FG 220) / CS ASTM A 216 Gr. WCB / SS 304 / SS 316 / ASTM A 351 Gr. CF8 / CF8M
2	PLUG	C.I. (IS 210 Gr. FG 220) / CS ASTM A 216 Gr. WCB / SS 304 / SS 316 / ASTM A 351 Gr. CF8 / CF8M
3	COVER PLATE	C.I. (IS 210 Gr. FG 220) / CS ASTM A 216 Gr. WCB / SS 304 / SS 316 / ASTM A 351 Gr. CF8 / CF8M
4	GLAND	C.I. (IS 210 Gr. FG 220) / CS ASTM A 216 Gr. WCB / SS 304 / SS 316 / ASTM A 351 Gr. CF8 / CF8M
5	GASKET	C.A.F. IS 2712 Gr. O/2 / COMPRESSED ASBESTOS
6	SHIM	STAINLESS STEEL
7	CHECK VLAVE	M.S. BRIGHT
8	LUB. FEED BOLT	M.S. BRIGHT
9	GLAND RING	C.A.F. IS 2712 Gr. O/2
10	GLAND PACKING	RUBBERISED ASBESTOS
11	FASTENERS	MS / HIGH TENSILE
12	PORT INDICATOR	C.I. / M.S.
Other materials can be provided on request.		
Note: The above data is subject to change without any notice due to our continuing product improvement program.		

- Standard Type
- Multi-ported (3-Way & 4-Way)
- Wrench operated
- Size Range: DN 15 – DN 150
- Pressure Range: PN10 / Class 125, PN16 / Class 150, PN25 / Class 300

WHERE,

A (FLANGED ENDS) = FACE TO FACE F/E

A (SCREWED ENDS) = END TO END S/E

C = CENTER TO TOP OF PLUG SHANK

B = CENTER TO BOTTOM OF BODY

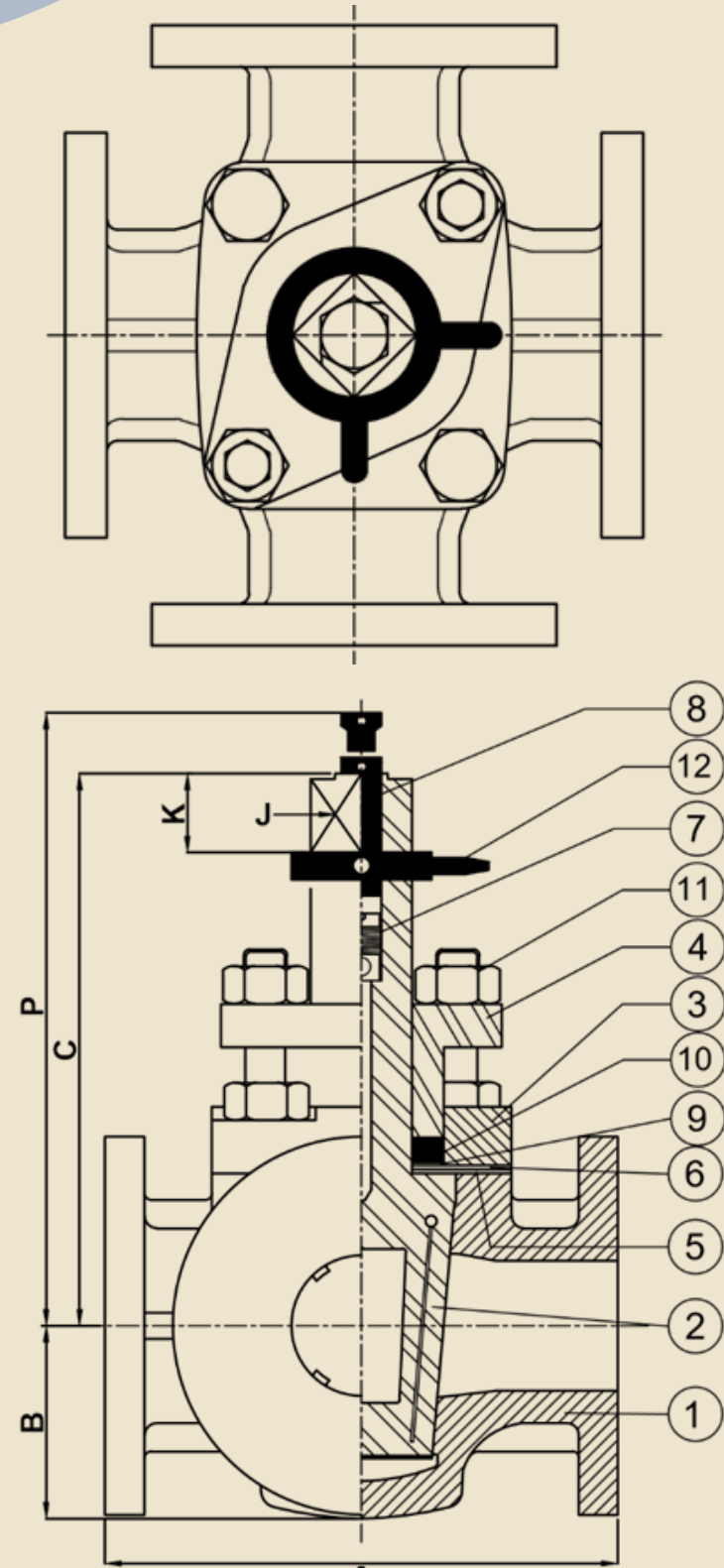
H = MAX. WIDTH OF BODY 3 – WAY SCREWED ENDS

I = MAX. WIDTH OF BODY 3 – WAY FLANGED ENDS

J = SIZE OF PLUG SQUIRE

K = DEPTH OF PLUG SQUIRE

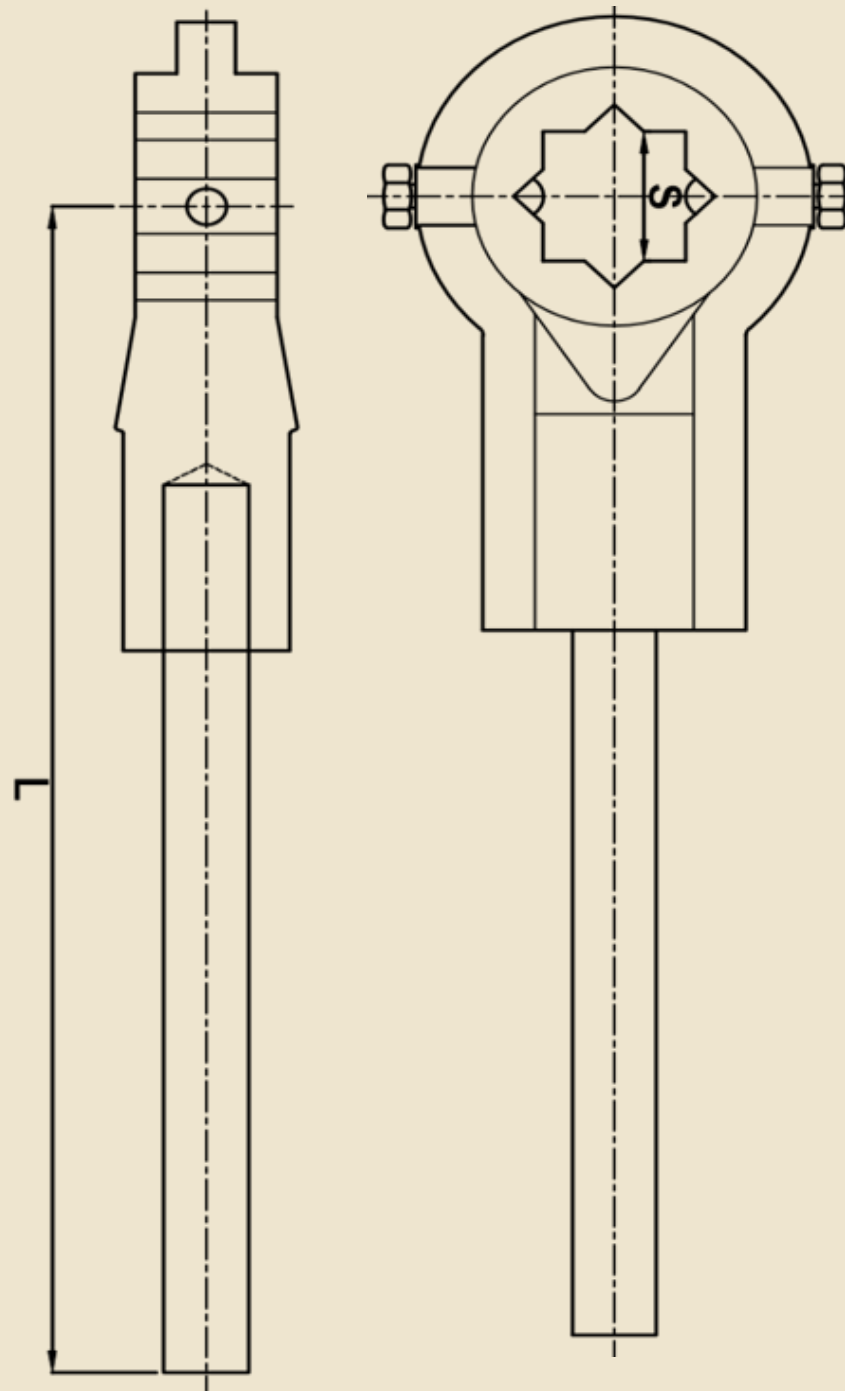
P = CENTER TO REMOVE LUB. FEED BOLT



Valves can be supplied in other MOC's on request :-SS (ASTM A 351 Gr.CF3MN / CF8C / CN7M), DSS (ASTM A 995 Gr. 4A / 5A / 3A / 6A)



LEVER / WRENCH DIMENSIONS:



LUBRICATED TAPER PLUG VALVE

DIMENSIONAL DATA				
WRENCH SIZE	SQUARE (S)		LENGTH (L)	
	inch	mm	inch	mm
2W	"	20	6"	150
3W	"	22	9"	225
4W	1 "	27	12 "	315
5W	1 "	32	15"	375
6W	1 "	38	18"	450
7W	1 "	40	30"	750
8W	1 "	47	40"	1000
9W	2"	50	44"	1100

Multiported Valves are widely used in Transfer Lines, and for Diverting and Mixing Services. The Installation simplicity piping and provides then other multiported valves would also eliminate access pipe fitting.

FLOW WAY DIAGRAM OF 3-WAY & 4-WAY VALVE:

PORT	3-WAY VALVE	4-WAY VALVE
"L" PORT		
"T" PORT		
DOUBLE "L" PORT		



UNITEK VALVES PVT LTD ®
MANUFACTURER OF INDUSTRIAL VALVES

AN ISO 9001-2015 CERTIFIED COMPANY



“MIPL” LUBRICANT STICKS FOR LUBRICATED PLUG VALVE

GRADES OF LUBRICANT STICKS

No.	GRADE	TEMP. RANGE	COLOUR	SUITABLE FOR	DO NOT USE FOR
1	MIPL – GR. 01	10°C to 100°C	White	Nitrating Acid, Sulphuric Acid & Other Oxidizing Chemicals	Petroleum or Hydrocarbon Products
2	MIPL – GR. 02	0°C to 100°C	Dirty White	Aliphatic & Aerometric Hydrocarbon. Minerals oil, Chlorinated solvent	Water & Alcohol
3	MIPL – GR. 03	15°C to 325°C	White	Most Chemical Plant Services, Compressed Air, Water, Aqueous, Salutations, Dilute Acids, Alkaline Salutations	Strong Acid Salutations & Petroleum Product.
4	MIPL – GR. 04	Do	Black	Do	Do
5	MIPL – GR. 05	0°C to 275°C	Brown	Butanes Propanes Gasoline Oils, Fuel Oils Mix Hydrocarbon, Solvents, Hot Water, etc.	Strong Alkalies
6	MIPL – GR. 06 (Multipurpose sealant)	150°C	Dark Yellow	General Acids, Alkalies & Furnace Oil, etc.	Solvent, Acids & Chemicals
7	MIPL – GR. 07 (High Temp. Grease)	350°C	Brown	Compressed Air, Hot Water, etc.	Strong Alkalies & Chemicals
8	MIPL – GR. 08 (Ammonia Resist Lubricant)	130°C	White	Specially for ammonia Liquars / Gas	Other Then Specified
9	MIPL – GR. 09 (Petroleum resist Lubricant)	150°C	Yellow	Specially for Petrol, Diesel, Kerosene, Crude Oil, Neptha, Hexane Solvent,	Do
10	MIPL – GR. 10	250°C	Yellow	Specially for Transformer Oil	Not Other Then

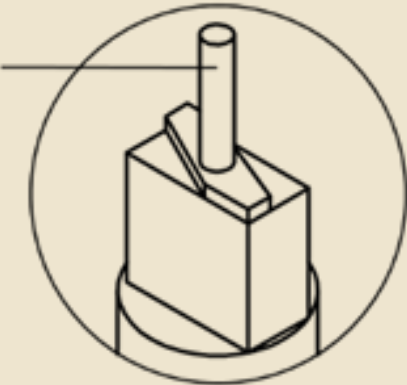
SIZE OF LUBRICANT STICKS

SIZE	DIA. X LENGTH	STICK / BOX
1A	6mm X 40 mm	30 Nos.
2A	10mm X 50 mm	30 Nos.
3A	12mm X 60 mm	25 Nos.
4A	16mm X 70 mm	25 Nos.
5A	19mm X 80 mm	25 Nos.

FREQUENCY OF “MIPL” LUBRICATION

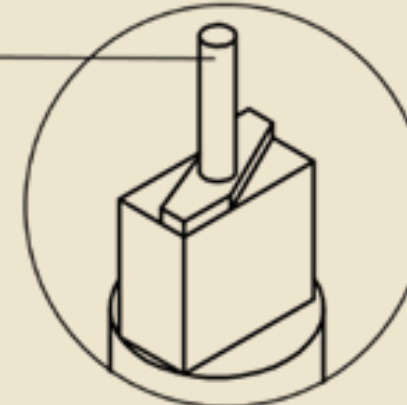
NO OF OPERATION	NOT MORE THEN	NOT LESS THEN
MORE THEM 100 TIMES	EACH SHIFT	WEEKLY
10 TO 100 TIMES PER DAY	DAILY	WEEKLY
1 TO 10 TIMES PER DAY	WEEKLY	MONTHLY
1 TO 30 TIMES PER	MONTHLY	QUATERLY
NOT MUCH FREQUENCY	QUATERLY	HALF YEARLY
NOTE: Do not hammer the valve, if it's in-operative, loosen the gland nut, insert the lubricant stick, when valve fully open or in close condition, operate the valve open close & then set the gland nut.		

LUBRICANT STICK



FULLY OPEN

LUBRICANT STICK



FULLY CLOSED

Valves can be supplied in other MOC's on request :-SS (ASTM A 351 Gr.CF3MN / CF8C / CN7M), DSS (ASTM A 995 Gr. 4A / 5A / 3A / 6A)